

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

Normally Aspirated Engines and Turbo Applications

**Part #: A10001 - E**

Grind: HF104-EXH

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

Exhaust Timming			
<u>Duration</u>	<u>266° (with .015 valve lash)</u>	<u>Duration</u>	<u>225° (with .050 valve lash)</u>
Open	56° BEFORE BDC	Open	34° BEFORE BDC
Close	30° AFTER TDC	Close	11° AFTER TDC
Valve Lift	10.10 mm	Valve Lift	10.10 mm
Roller Lash	.14 mm (COLD)	Roller Lash	.14 mm (COLD)
Valve Lash	.20 mm (COLD)	Valve Lash	.20 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

Normally Aspirated Engines and Turbo Applications

**Part #: A10001 - I**

Grind: HF004-INT

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Intake Timing</b>			
<b><u>Duration</u></b>	<b><u>276° (with .015 valve lash)</u></b>	<b><u>Duration</u></b>	<b><u>234° (with .050 valve lash)</u></b>
<b>Open</b>	40° BEFORE TDC	<b>Open</b>	20° BEFORE TDC
<b>Close</b>	56° AFTER BDC	<b>Close</b>	34° AFTER BDC
<b>Valve Lift</b>	11.00 mm	<b>Valve Lift</b>	11.00 mm
<b>Roller Lash</b>	.10 mm (COLD)	<b>Roller Lash</b>	.10 mm (COLD)
<b>Valve Lash</b>	.15 mm (COLD)	<b>Valve Lash</b>	.15 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

Turbo Applications. Drag Racing

**Part #: A10002 - E**

Grind: HF102-EXH

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Exhaust Timming</b>			
<u>Duration</u>	<u>314° (with .015 valve lash)</u>	<u>Duration</u>	<u>240° (with .050 valve lash)</u>
<b>Open</b>	86° BEFORE BDC	<b>Open</b>	44° BEFORE BDC
<b>Close</b>	48° AFTER TDC	<b>Close</b>	16° AFTER TDC
<b>Valve Lift</b>	11.00 mm	<b>Valve Lift</b>	11.00 mm
<b>Roller Lash</b>	.14 mm (COLD)	<b>Roller Lash</b>	.14 mm (COLD)
<b>Valve Lash</b>	.19 mm (COLD)	<b>Valve Lash</b>	.19 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

**Turbo Applications. Drag Racing**

**Part #: A10002 - I**

**Grind: HF002-INT**

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Intake Timing</b>			
<u>Duration</u>	<u>308° (with .015 valve lash)</u>	<u>Duration</u>	<u>240° (with .050 valve lash)</u>
<b>Open</b>	48° BEFORE TDC	<b>Open</b>	15° BEFORE TDC
<b>Close</b>	80° AFTER BDC	<b>Close</b>	42° AFTER BDC
<b>Valve Lift</b>	11.25 mm	<b>Valve Lift</b>	11.25 mm
<b>Roller Lash</b>	.10 mm (COLD)	<b>Roller Lash</b>	.10 mm (COLD)
<b>Valve Lash</b>	.15 mm (COLD)	<b>Valve Lash</b>	.15 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

#### Road Racing Applications

**Part #: A10003 - E**

Grind: HF103-EXH

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm. Tighten both adjustment screws at the same time.

<b>Exhaust Timming</b>			
<b><u>Duration</u></b>	<b><u>260°</u></b> (with .020 valve lash)	<b><u>Duration</u></b>	<b><u>236°</u></b> (with .050 valve lash)
<b>Open</b>	57° BEFORE BDC	<b>Open</b>	45° BEFORE BDC
<b>Close</b>	23° AFTER TDC	<b>Close</b>	11° AFTER TDC
<b>Valve Lift</b>	11.60 mm	<b>Valve Lift</b>	11.60 mm
<b>Roller Lash</b>	.14 mm (COLD)	<b>Roller Lash</b>	.14 mm (COLD)
<b>Valve Lash</b>	.20 mm (COLD)	<b>Valve Lash</b>	.20 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

#### Road Racing Applications

**Part #: A10003 - I**

Grind: HF003-INT

**Engines:** Acura Integra GSR 1.7 L (V-TEC)  
Acura Integra GSR 1.8 L (V-TEC)  
Honda Del Sol 1.6 L (V-TEC)  
Honda Civic SI 1.6 L (V-TEC)

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm. Tighten both adjustment screws at the same time.

#### Intake Timing

<u>Duration</u>	<u>266°</u> (with .020 valve lash)	<u>Duration</u>	<u>242°</u> (with .050 valve lash)
Open	32° BEFORE TDC	Open	20° BEFORE TDC
Close	54° AFTER BDC	Close	42° AFTER BDC
Valve Lift	12 mm	Valve Lift	12 mm
Roller Lash	.10 mm (COLD)	Roller Lash	.10 mm (COLD)
Valve Lash	.15 mm (COLD)	Valve Lash	.15 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

Normally Aspirated Engines and Turbo Applications

**Part #: A10004 - E**

Grind: 236/457-EXH

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

Exhaust Timming			
<u>Duration</u>	<u>260°</u> (with .015 valve lash)	<u>Duration</u>	<u>236°</u> (with .050 valve lash)
Open	57° BEFORE BDC	Open	45° BEFORE BDC
Close	23° AFTER TDC	Close	11° AFTER TDC
Valve Lift	11.60 mm	Valve Lift	11.60 mm
Roller Lash	.14 mm (COLD)	Roller Lash	.14 mm (COLD)
Valve Lash	.20 mm (COLD)	Valve Lash	.20 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

Normally Aspirated Engines and Turbo Applications

**Part #: A10004 - I**

Grind: 242/472-INT

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Intake Timing</b>			
<u>Duration</u>	<u>266°</u> (with .015 valve lash)	<u>Duration</u>	<u>242°</u> (with .050 valve lash)
<b>Open</b>	32° BEFORE TDC	<b>Open</b>	20° BEFORE TDC
<b>Close</b>	54° AFTER BDC	<b>Close</b>	42° AFTER BDC
<b>Valve Lift</b>	12 mm	<b>Valve Lift</b>	12 mm
<b>Roller Lash</b>	.10 mm (COLD)	<b>Roller Lash</b>	.10 mm (COLD)
<b>Valve Lash</b>	.15 mm (COLD)	<b>Valve Lash</b>	.15 mm (COLD)



## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

Normally Aspirated Engines and Turbo Applications

**Part #: A10005 - E**

Grind: 224/425-EXH

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Exhaust Timming</b>			
<u>Duration</u>	<u>248°</u> (with .020 valve lash)	<u>Duration</u>	<u>224°</u> (with .050 valve lash)
<b>Open</b>	61° BEFORE BDC	<b>Open</b>	49° BEFORE BDC
<b>Close</b>	7.0° AFTER TDC	<b>Close</b>	5.0° AFTER TDC
<b>Valve Lift</b>	10.7 mm	<b>Valve Lift</b>	10.7 mm
<b>Roller Lash</b>	.13 mm (COLD)	<b>Roller Lash</b>	.13 mm (COLD)
<b>Valve Lash</b>	.20 mm (COLD)	<b>Valve Lash</b>	.20 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

Normally Aspirated Engines and Turbo Applications

**Part #: A10005 - I**

Grind: 230/441-INT

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Intake Timing</b>			
<u>Duration</u>	<b>254° (with .020 valve lash)</b>	<u>Duration</u>	<b>230° (with .050 valve lash)</b>
<b>Open</b>	20° BEFORE TDC	<b>Open</b>	8° BEFORE TDC
<b>Close</b>	54° AFTER BDC	<b>Close</b>	42° AFTER BDC
<b>Valve Lift</b>	11.2 mm	<b>Valve Lift</b>	11.2 mm
<b>Roller Lash</b>	.10 mm (COLD)	<b>Roller Lash</b>	.10 mm (COLD)
<b>Valve Lash</b>	.15 mm (COLD)	<b>Valve Lash</b>	.15 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### EXHAUST

Normally Aspirated Engines and Turbo Applications

**Part #: A10006 - E**

Grind: 236/457-EXH

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

Exhaust Timming			
<u>Duration</u>	<u>260°</u> (with .020 valve lash)	<u>Duration</u>	<u>236°</u> (with .050 valve lash)
Open	67° BEFORE BDC	Open	55° BEFORE BDC
Close	13° AFTER TDC	Close	1° AFTER TDC
Valve Lift	11.6 mm	Valve Lift	11.6 mm
Roller Lash	.13 mm (COLD)	Roller Lash	.13 mm (COLD)
Valve Lash	.20 mm (COLD)	Valve Lash	.20 mm (COLD)

## CAMSHAFT FOR ROLLER ROCKER SYSTEM

### TECHNICAL DATA

#### INTAKE

Normally Aspirated Engines and Turbo Applications

**Part #: A10006 - I**

Grind: 230/441-INT

Engine: Honda Prelude 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000

**NOTE:** To properly adjust the valve-lash, use a feeler gauge between the camshaft base-circle and the roller wheel of the rocker arm.

Tighten both adjustment screws at the same time.

<b>Intake Timing</b>			
<u>Duration</u>	<u>254°</u> (with .020 valve lash)	<u>Duration</u>	<u>230°</u> (with .050 valve lash)
<b>Open</b>	20° BEFORE TDC	<b>Open</b>	8° BEFORE TDC
<b>Close</b>	54° AFTER BDC	<b>Close</b>	42° AFTER BDC
<b>Valve Lift</b>	11.2 mm	<b>Valve Lift</b>	11.2 mm
<b>Roller Lash</b>	.10 mm (COLD)	<b>Roller Lash</b>	.10 mm (COLD)
<b>Valve Lash</b>	.15 mm (COLD)	<b>Valve Lash</b>	.15 mm (COLD)